

ABSTRAK

Yosua Steven Malau, NIM 4203342033 (2024). Pengembangan Media *E-booklet* Materi Keanekaragaman Hayati Untuk Meningkatkan Hasil Belajar siswa Kelas X SMA Swasta Teladan Cinta Damai Helvetia Medan

Tujuan penelitian ini adalah untuk mengetahui kelayakan media ebooklet keanekaragaman hayati yang telah dikembangkan melalui validasi tiga dosen ahli (ahli materi, ahli media dan ahli desain pembelajaran), respon guru bidang studi biologi dan siswa serta efektifitas ebooklet terhadap hasil belajar siswa kelas X IPA SMA Swasta Teladan Cinta Damai, Helvetia Medan. Jenis penelitian ini merupakan penelitian pengembangan atau *Reserach and Development* (R&D) menggunakan model 4D menurut Thiagrajan. Teknik pengumpulan data dalam penelitian yaitu menggunakan beberapa instrumen diantaranya angket validasi ahli, angket respon guru dan siswa serta lembar pretes dan postes. Adapun teknik analisis data penelitian yaitu analisis data hasil validasi ahli, analisis data repon guru dan siswa, uji N-gain, serta Uji *Paired Sample T-Test*. Hasil penelitian menunjukkan bahwa penilaian ahli materi mendapat presentase skor sebesar 87% kategori sangat layak, ahli desain pembelajaran 89% kategori sangat layak, ahli media 85,7% kategori sangat layak, tanggapan guru bidang studi biologi 96,5 % kategori sangat layak serta respon peserta didik pada uji coba kelompok terbatas dengan sampel 30 orang presentase skor 80 % kategori layak. Tingkat evektivitas berdasarkan uji N-gain memperoleh skor sebesar 76,4% dan ini menunjukkan peningkatan hasil belajar berada pada kriteria efektif.

Kata Kunci: Media Pembelajaran, *e-booklet*, Hasil Belajar



ABSTRACT

Yosua Steven Malau, Student ID 4203342033 (2024). Development of E-booklet Media for Biodiversity Materials to Improve Learning Outcomes of Grade 10 Students at Swasta Teladan Cinta Damai Helvetia Medan Senior High School.

The purpose of this study was to determine the feasibility of the biodiversity ebooklet media that has been developed through validation by three expert lecturers (material experts, media experts and learning design experts), the response of biology teachers and students and the effectiveness of the ebooklet on the learning outcomes of class X IPA students of SMA Swasta Teladan Cinta Damai, Helvetia Medan. This type of research is a development research or Research and Development (R&D) using the 4D model according to Thiagrajan. Data collection techniques in the study used several instruments including expert validation questionnaires, teacher and student response questionnaires and pretest and posttest sheets. The research data analysis techniques were analysis of expert validation data, analysis of teacher and student response data, N-gain test, and Paired Sample T-Test. The results of the study showed that the assessment of material experts received a score percentage of 87% in the very feasible category, learning design experts 89% in the very feasible category, media experts 85.7% in the very feasible category, the response of biology subject teachers 96.5% in the very feasible category and the response of students in the limited group trial with a sample of 30 people the score percentage was 80% in the feasible category. The level of effectiveness based on the N-gain test obtained a score of 76.4% and this shows that the increase in learning outcomes is in the effective criteria.

Keywords: Learning Media, e-booklet, Learning Outcomes

